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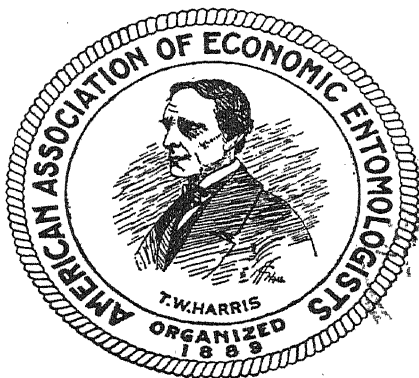
INDEX IV TO THE LITERATURE OF
AMERICAN ECONOMIC ENTOMOLOGY

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TO THE
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OF
AMERICAN ECONOMIC
ENTOMOLOGY

January 1, 1925 to December 31, 1929

Compiled by
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Edited by
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AMERICAN ASSOCIATION OF ECONOMIC ENTOMOLOGISTS
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INTRODUCTORY

This Index is a continuation of Indexes I to III of American Economic Entomology, a series continuing the older bibliographies of American Economic Entomology by Samuel Henshaw and Nathan Banks. The preceding Indexes were prepared with the cooperation of Dr. L. O. Howard, late Chief of the Bureau of Entomology. This Index has been made possible through the cooperation of Dr. C. L. Marlatt, Chief of the Bureau of Entomology, U. S. Department of Agriculture, who kindly detailed Miss Mabel Colcord, librarian of the Bureau, to have charge of the preparation of the manuscript. To her and her assistants as well as to Dr. Marlatt, the economic entomologists of the world are indebted for the compilation of an immensely serviceable work.

The Index when turned over to the Editorial Board comprised 1905 manuscript pages, which would have made approximately 590 printed pages. It was considered necessary, as in preceding Indexes, to reduce the size of the volume without seriously impairing its value. The immense number of references made it impracticable to consult every citation and there are doubtless many errors of omission, both passive and active, for which the editor will probably be held responsible. There has also been a consolidation of references in cases where papers contained notices of many species, especially those of presumably minor economic importance. Although there are a number of authors with the same surname and initials are not included in the Index, their omission should not result in material confusion.

The following rules were adopted for guidance in the editing of this work:

The scope was limited to temperate and subtropical America, thus the extreme north and the Hawaiian and Philippine Islands were excluded, except in cases where references to the literature of these areas appeared to be of considerable importance.

Only the better established or well known common names have been retained. Those approved by the Committee on Nomenclature of the American Association of Economic Entomologists have been starred (*).

Anonymous articles in the agricultural press have been largely excluded, and all in farm papers in the case of a species or topic with numerous citations. The omission of such literature is indicated by a double dagger (§) and in some cases citations of official press bulletins or circulars, the more ephemeral literature, have been omitted because data of value in these media are very likely to appear in bulletins or reports.

The nature of general works is so well indicated by the title that in order to avoid duplication only the work as a whole or a few of the more important subdivisions have been indexed, and in some cases, the names of relatively unknown insects have also been excluded.

The publication of the work was authorized by the American Association of Economic Entomologists and the committee charged with the supervision and execution of the project has endeavored to carry out the original intent of the organization. It is the hope of the undersigned that this volume like its predecessors, will amply justify itself in making readily available the voluminous and scattered literature relating to the economic insects of America.

E. P. FELT,
D. M. DeLONG,
C. W. COLLINS,

Editorial Board

INDEX TO THE LITERATURE OF AMERICAN ECONOMIC ENTOMOLOGY

JANUARY 1, 1925, TO DECEMBER 31, 1929

By MABEL COLCORD

The following Index to the Literature of American Economic Entomology for the five year period July 1, 1924 to December 31, 1929, inclusive, is a continuation of the Bank's Index, 1905 to 1914 and of the Colcord Indexes 1915 to 1924. All of these are but modified extensions of the Bibliography of American Economic Entomology published by the United States Department of Agriculture, Division of Entomology, (now Bureau of Entomology), 1889 to 1905, Parts I-V by Samuel Henshaw, Parts VI-VIII by Nathan Banks.

The plan of the Bank's Index has been closely followed. The insect and other headings are arranged alphabetically; references are alphabetic by author under the insect name and chronologic under each author. Practically all anonymous articles have been omitted.

The references have been made as short as possible and we hope may be readily deciphered after reading the following explanation and referring, when necessary, to the list of abbreviations.

"B" means bulletin, "C", circular, "R", report, "P. B.", press bulletin. Publications of the various agricultural experiment stations are referred to simply by State and number of bulletin, circular or report—e.g. "Fla. B. 147" means Florida Agricultural Experiment Station Bulletin No. 147. "Fla. Ext. B. 37" means Florida Agricultural Experiment Station Extension Bulletin No. 37. The New York Cornell Station bulletins are referred to as "N. Y. C. B." and the Geneva Station bulletins as "N. Y. Geneva B." or "N. Y. Gen. B." The Bulletins of the U. S. Department of Agriculture are "U. S. D. A. B." or "USDAB", the Yearbook articles are "U. S. Y. B.", the Farmers' bulletins are "U. S. F. B.", the Proceedings of the U. S. National Museum are "P. U. S. N. M.", or "PUSNM", and the Bulletins of the American Museum of Natural History are "B. A. M. N. H.", or "BAMNH."

"Pr." or "Proc.", sometimes "P.", are used for Proceedings, "J." or "Jr." for Journal. The words "State" and "Annual" are usually omitted in the references, although in a few cases "St." (State) is retained because of possible confusion. The first figure after the "B" or "R" indicates the number of the volume (if a periodical), or of a bulletin or report and the next figure the page. If three or more figures appear in the same reference the first is always the volume, the second the number in the volume and the third the number of the page in the number: a semicolon follows the volume in all such cases,—e.g. "Howard, Better Fruit 15; 12, 3, 1921" means an article by Howard in Better Fruit, volume 15, number 12, page 3, published in 1921. "M" or "Mem." are used for Memoir, e.g. "N. Y. C. M. 48" means New York Cornell University Agricultural Experiment Station Memoir 48. Author's references to a series of publications have been combined, the numerals for the different publications being separated by a colon (:). Marginal letters or symbols have the following significance—"n" means that the species described is new, double dagger (‡) following the name of the insect means that some of the presumably less important references have been deleted by the editor, "i" that the article is illustrated, "b" that the article contains a bibliography. Starred (*) common names are those approved by the Committee on Nomenclature of the American Association of Economic Entomologists. The year of publication has been added to all references as it is oftentimes a great help in determining the

article wanted,—e.g. "N. J. R. 1923" might mean either the New Jersey Agricultural Experiment Station Report for 1923 published in 1924, or the Report for 1922 published in 1923. If it reads "N. J. R. f. 1923" there can be no mistake, and if 1924 is added at the end of the reference, the date of actual publication is beyond doubt.

In questions of synonymy standard catalogues have been followed—e.g. Leng for Coleoptera, Barnes for Lepidoptera, Aldrich for Diptera, Van Duzee for Hemiptera, etc., etc. In a few cases authorities consulted have thought it better to use an old name well established rather than a new one not so well known, e.g., *Carpocapsa pomonella* rather than *Cydia pomonella*. In all such cases references have been made from the new name to the old. The systematists at the U. S. National Museum have very kindly determined the more difficult questions of synonymy; for

Coleoptera, Drs. A. G. Boving and E. A. Chapin, Messrs. H. S. Barber, L. L. Buchanan and W. S. Fisher.

Lepidoptera, Dr. William Schaus, Messrs. August Busck and Carl Heinrich.

Diptera, Dr. J. M. Aldrich, Mr. C. T. Greene.

Hymenoptera, Mr. A. B. Gahan, Mr. R. A. Cushman and Miss Grace Sandhouse. Orthoptera and Neuroptera, Mr. A. N. Caudell.

Hemiptera, Drs. A. C. Baker and W. L. McAtee.

Odonata, Mr. R. P. Currie.

Coccidae, Dr. Harold Morrison.

Ectoparasites and mites, Dr. H. E. Ewing.

Termites, Dr. T. E. Snyder.

Diseases of insects, Dr. G. F. White.

As for earlier indexes so for this, members of the economic staff of the Bureau have given many helpful suggestions as to matter to be included. We are especially indebted to Drs. L. O. Howard, W. H. Larrimer, F. C. Craighead, E. A. Back, and R. T. Cotton, and to Messrs. W. R. Walton, J. E. Graf, J. S. Wade, W. H. White, F. C. Bishopp, J. L. Webb and J. A. Hyslop. Most of the actual indexing was done by Miss Marie A. Maxwell and Miss Mildred DeHart, whose devotion to the work has greatly facilitated its early completion. To Dr. A. L. Quaintance our thanks are again due for arranging for adequate assistance in copying the manuscript. Miss C. R. Barnett, Librarian of the U. S. Department of Agriculture, again gave us most helpful cooperation in making available many books needed for indexing and in assigning desk space in the Department Library to one of our assistants while the work was in progress. To our own Bureau Library staff our thanks are again due for a fine spirit of cooperation throughout the long period of compilation.

BOOKS INDEXED AS A WHOLE OR ONLY THEIR MORE IMPORTANT SUBDIVISIONS

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LIST OF ABBREVIATIONS

Acad. = Academy	Elev. = Elevator
Adm. = Administrative	Eng. = Engineering
Adv. = Advancement	Ent. = Entomologist, Entomology
Advoc. = Advocate	Exch. = Exchange
Agr. = Agriculture, Agriculturist, Agri- cultural	Exp. = Experimental
Am. or Amer. = American	Exterm. = Extermination
Ann. = Annals, Annual	Farm. = Farmer
App. = Appendix	Fed. = Federal
Archiv. = Archives	Fert. = Fertilizer
Assoc. = Association	Flor. = Florist
B. = Bulletin	For. = Forestry
B. C. = British Columbia	Fr. = Fruit
Bank. = Banker	Fumig. = Fumigation
Bd. = Board	Fung. = Fungicide
Bien. = Biennial	Gard. = Gardeners, Gardening
Biol. = Biological	Gaz. = Gazette
Bost. = Boston	Gen. = General
Br. = Branch	Gentl. = Gentleman
Bul. = Bulletin	Geog. = Geographic
Bur. = Bureau	Geol. = Geology
C. = Circular	Gr. = Grain
C. when after N. Y. = Cornell	Grow. = Grower
C. Gentl. = Country Gentleman	Homest. = Homestead
Can. = Canada	Hort. = Horticulture, Horticulturist
Clem. = Clemson	Hosp. = Hospital
Coll. = College	Hyg. = Hygiene, Hygienic
Comm. = Commission	Illus. = Illustrated
Comp. = Comparative	Impl. = Implement
Confer. = Conference	Indus. = Industrialist
Cong. = Congress	Infec. = Infectious
Conserv. = Conservation	Infor. = Information
Cont. = Contribution	Inj. = Injurious
Conv. = Convention	Ins. = Insect
Coop. = Cooperative	Insect. = Insecticide
Cranb. = Cranberry	Insp. = Inspection
Cult. = Cultivator	Internat. = International
Cutan. = Cutaneous	Interst. = Interstate
D. A. = Department Agriculture	J., Jr. or Jour. = Journal
Dairym. = Dairyman	L. I. = Long Island
Dept. = Department	Lab. = Laboratory
Dermat. = Dermatology	Lumberm. = Lumberman
Destr. = Destructive	Mag. = Magazine
Dis. = Disease	Man. = Manual
Dom. = Dominion	Med. = Medicine, Medical
Ec. = Economic	Meet. = Meeting
Ecol. = Ecology	Mem. = Memoir
Ed. = Education	Met. = Metallurgical
	Mil. = Military

Mill. = Miller
 Mod. = Modern
 Month. = Monthly
 Mos. = Mosquito
 Mus. = Museum
 N. Eng. = New England
 Nat. = National, Naturalist
 Northw. = Northwestern
 Not. = Notices
 Nurs. = Nursery
 Off. = Office
 Ont. = Ontario
 Orch. = Orchard
 P. = Proceedings
 P. B. = Press Bulletin
 Pac. = Pacific
 Path. = Pathological
 Pl. = Plant, Planter
 Poly. = Polytechnic
 Pom. = Pomological
 Pop. = Popular
 Poult. = Poultry
 Prai. = Prairie
 Prevent. = Preventive
 Proclam. = Proclamation
 Prod. = Producer
 Prog. = Progressive
 Protec. = Protection
 Pub. = Public, Publication
 Quar. = Quarterly
 R. = Report
 Rec. = Record
 Res. = Research
 Rev. = Review
 Roy. = Royal
 Rur. = Rural

Ry. = Railway
 Sci. = Science
 Sec. = Secretary
 Serv. = Service
 Sess. = Session
 Soc. = Society
 So. = South
 South. = Southern
 Sp. = Special
 St. = State
 St. N. = Saint Nicholas
 Sta. = Station
 Statis. = Statistical
 Stockm. = Stockman
 Succ. = Successful
 Sup. = Supplement
 Suppr. = Suppression
 Supt. = Superintendent
 Surg. = Surgical
 Surv. = Survey
 Syn. = Synopsis
 Tech. = Technical
 Tr. or Trans. = Transactions
 Trop. = Tropical
 Univ. = University
 U. S. D. A. B. or USDA = Bulletin U.
 S. Dept. Agriculture
 U. S. F. B. or USFB = U. S. Dept. Agr.
 Farmers' Bulletin
 U. S. Y. B. = Yearbook U. S. Dept.
 Agriculture
 Veg. = Vegetation
 Vet. = Veterinary
 West. = Western
 Wkly. = Weekly
 Zool. = Zoology

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INDEX OF LITERATURE, 1925-1929

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29, *diversicolor* 27, *erucarum* 27-28,
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37-38, *psilocorsi* 40-41, *punctatus* 24-25,
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spp.—host list 82-84, spp.—Key 7-23,
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